ABSTRACT OF THE DISCLOSURE

In reagent reaction experiments using microplates, a desired period of time can be set for determining the time to introduce a reaction stop solution after introduction of a reagent. The set time is measured starting from the introduction of the reagent and the reaction stop solution is introduced immediately after expiration of the set time. A control device for an automatic liquid handling system having the above-described reaction time managing feature is also provided with a self-diagnosing function that is capable of determining whether scheduled processes are executable or not during the time set before execution of the processes and informing an operator of the results of determination.